DECLARATION FOR UTILITY OR DESIGN Routkevitch First Named Inventor PATENT APPLICATION COMPLETE IF KNOWN (37 CFR 1.63) Application Number Declaration HEREWITH □ Declaration OR Filing Date Submitted after Submitted Initial Filing-with Initial Group Art Unit surcharge 37 CFR Filing [Not Yet Assigned] 1.16(e) required **Examiner Name** As a below named Inventor, I hereby declare that: My residence, post office address, and citizenship are as stated below next to my name. I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled: SEMICONDUCTOR AND DEVICE NANOTECHNOLOGY AND METHODS FOR THEIR MANUFACTURE the specification of which is attached hereto OR as U.S. Application No. or was filed on PCT International Application No. (MM/DD/YYYY) and was amended on (if applicable) (MM/DD/YYYY) I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment specifically referred to above. I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56. I hereby claim foreign priority benefits under 35 U.S.C § 119(a)-(d) or 365(b) of any foreign application(s) for patent or inventor's certificate, or § 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or of any PCT international application having a filing date before that of the application on which priority is claimed. Certified Copy Attached? Priority Not Foreign Filing Date Prior Foreign Appl. No.(s) Country No Claimed Yes (MM/DD/YYYY) П П П ☐ Additional foreign application nos. are listed on a supplemental priority data sheet PTO/SB/02B attached hereto: I hereby claim the benefit under 35 U.S.C. § 119(e) of any United States provisional application(s) listed below. Filing Date (MM/DD/YYYY) Application Number(s) 10/24/2000 60/242,905

Attorney Docket No.

A52 CON1

DECLARATION – Utility or Design Patent Application

application de claims of this provided by the patentability a	esignating application application applications	ofit under 35 U. the United States is not disclosuragraph of 35 U. in 37 CFR 1.5	ates of Americ sed in the pric U.S.C. 112, I a i6 which beca	a, listed or United acknowle me avail	States States edge the lable be	or PCT	inter	national	applice application of the	cation in to on which prior ap	the is plic	manner material to ation and
U.S. Pa	rent App	emational filing lication or PC	T Parent No.	ррпсац	Parent Filing Date (MM/DD/YY)				F	Parent Patent No. (if applicable)		
10/004,258						October 24, 2001						
☐ Additiona	I U.S. or	PCT internation	nal application	nos. lis	ted on F	TO/SB	/02B	attache	d here	to.		
As a named in transact all be Custome	nventor, l usiness ir r Number	hereby appoir the Patent Tra	nt the following ademark Offic Place	g registe e conne bar cod	red prac cted the le label	ctitioner rewith: here 88	(s) u	prosec	ute thi	s applica		
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☐ Additiona	al register	ed practitioner((s) named on	supplem	ientai si	ieet PT	UISE	OR		orrespor	ıde	nce
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I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and such willful false statements may jeopardize the validity of the application or any patent issued thereon.												
Name of Sole or First Inventor:												
G	Given Name (first and middle [if any]) Family Name or Sumame											
Tapesh			0 010		Yac	lav						
Inventor's Signature		Taximadan Date 02-19-04										
Residence (City	Niwot	State	co		Coun	try	USA	Ci	tizenship	<u> </u>	US
Post Office	Address	14330 Long	s Peak Cou	rt				<u></u>				
Post Office	Address								 -		_	
City		Longmont	State	CO		ZIP	80	504	C	ountry	U	ISA
☐ Additiona	l inventor	s are named o	nsupplem	nental ac	ditional	invento	or(s)	sheet(s) PTO	SB/02A	ette	ached

DECLARATION – Utility or Design Patent Application

I hereby claim the benefit under 35 U.S.C. 120 of any U.S. application(s) or 365(c) of any PCT international application designating the United States of America, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT international application in the manner provided by the first paragraph of 35 U.S.C. 112, I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application U.S. Parent Application or PCT Parent No. Parent Filing Date Parent Patent No. (MM/DD/YY) (if applicable) Additional U.S. or PCT international application nos. listed on PTO/SB/02B attached hereto. As a named inventor, I hereby appoint the following registered practitioner(s) to prosecute this application and to transact all business in the Patent Trademark Office connected therewith: Place bar code label here → → □ Customer Number 25235 Registered practitioner(s) name/registration number listed below Registration Registration Number Number Name Name ☐ Additional registered practitioner(s) named on supplemental sheet PTO/SB/02C attached hereto. OR Correspondence Direct all correspondence to:

Customer Number address below or Bar Code Label Stuart T. Langley, Esq. Name Hogan & Hartson, LLP **Address** 1200 17th Street, Suite 1500 **Address** ZIP 80202 State CO City Denver Telephone (720) 406-5335 Fax (720) 406-5301 Country US I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and such willful false statements may jeopardize the validity of the application or any patent issued thereon. A petition has been filed for this unsigned inventor. Name of Sole or First Inventor: Family Name or Surname Given Name (first and middle [if any]) Routkevitch Dmitri Date Inventor's Signature USA State CO Country Citizenship **Belarus** Residence City Longmont 1355 Carnation Circle, Longmont, CO 80503 Post Office Address Post Office Address ZIP **USA** CO 80503 Country Longmont State City ⊠Additional inventors are named on __2_supplemental additional inventor(s) sheet(s) PTO/SB/02A attached

ADDITIONAL INVENTOR(S) Supplemental Sheet Page __3__ of __4___

Name of Additional Jo	☐ A petition has been filed for this unsigned inventor								
Given Name (first	Family Name or Surname								
Peter	Mardilovich								
Inventor's Signature	and.	ler	10	Date	02/06/02				
Residence: City	Corvallis	State	OR	Country	us	Citizenship	Belarus		
Post Office Address	4327 NW Silverbel	lle Place,	Corv	allis, OR	97330		·		
Post Office Address									
City	Corvallis	State	OR	ZIP	97330	Country	USA		
Name of Additional Jo	oint Inventor, if any:	☐ A petit	ion has	been filed	for this un	signed invento	r		
Given Name (first	and middle [if any])	Family Name or Surname							
Alex	Govyadinov								
Inventor's Signature				Date					
Residence: City	Corvallis	State	OR	Country	USA	Citizenship	Belarus		
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Post Office Address									
City	Corvallis	State	OR	ZIP	97330	Country	USA		
Name of Additional Jo	oint Inventor, if any:	☐ A petition has been filed for this unsigned inventor							
Given Name (first	and middle [if any])	Family Name or Surname							
Stephanie	Hooker								
Inventor's Signature						Date			
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Post Office Address									
City	Longmont		со	ZIP	80503	Country	USA		

ADDITIONAL INVENTOR(S) Supplemental Sheet Page __3__ of __4___

Name of Additional Jo	☐ A petition has been filed for this unsigned inventor								
Given Name (first	and middle [if any])	Family Name or Surname							
Peter	Mardilovich								
Inventor's Signature				·	Date				
Residence: City	Corvallis	State	OR	Country	US	Citizenship	Belarus		
Post Office Address	4327 NW Silverbe	lle Place	Corv	allis, OR	97330				
Post Office Address									
City	Corvallis	State	OR	ZIP	97330	Country	USA		
Name of Additional Jo	oint Inventor, if any:	☐ A petit	ion has	been filed	for this un	signed invento	r .		
Given Name (first a	and middle [if any])	Family Name or Surname							
Alex	Govyadinov								
Inventor's Signature	adino	/		02/03/02 Date					
Residence: City	Corvallis	State	OR	Country	USA	Citizenship	Belarus		
Post Office Address	3lvd., #2,	Corva	allis, OR	97330-32	83				
Post Office Address									
City	Corvallis	State	OR	ZIP	97330	Country	USA		
Name of Additional Jo	oint Inventor, if any:	☐ A petition has been filed for this unsigned inventor							
Given Name (first	Family Name or Surname								
Stephanie	Hooker								
Inventor's Signature				Date					
Residence: City	Longmont	State	со	Country	USA	Citizenship	USA		
Post Office Address 3709 Chestnut Pla		ace, Longmont, CO 80503							
Post Office Address		-							
City	Longmont	State	со	ZIP	80503	Country	USA		

ADDITIONAL INVENTOR(S) Supplemental Sheet Page __3__ of __4___

Name of Additional Jo	☐ A petition has been filed for this unsigned inventor									
Given Name (first	Family Name or Surname									
Peter		Mard	ilovich	1						
Inventor's Signature					Date					
Residence: City	Corvallis	State OR		Country	us	Citizenship	Belarus			
Post Office Address	4327 NW Silverbe	lle Place	le Place, Corvallis, OR 97330							
Post Office Address										
City	Corvallis	State	OR	ZIP	97330	Country	USA			
Name of Additional Jo	oint Inventor, if any:	☐ A petit	ion has	s been filed	for this un	signed invento	r			
Given Name (first	Family Name or Surname									
Alex		Govyadinov								
Inventor's Signature										
Residence: City	Corvallis	State	OR	Country	USA	Citizenship	Belarus			
Post Office Address 4200 NW Walnut I		3lvd., #2,	Corv	allis, OR	97330-32	83				
Post Office Address										
City	Corvallis	State	OR	ZIP	97330	Country	USA			
Name of Additional Jo	oint Inventor, if any:	☐ A petition has been filed for this unsigned inventor								
Given Name (first	Family Name or Surname									
Stephanie	Hooker									
Inventor's Signature	: (2. /	Joolu-		Date	2/4/02				
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Post Office Address	3709 Chestnut Pla	ice, Long	gmont	, CO 8050	03					
Post Office Address										
City	Longmont		со	ZIP	80503	Country	USA			

ADDITIONAL INVENTOR(S) Supplemental Sheet Page __4__ of __4__

Name of Additional Jo	☐ A petition has been filed for this unsigned inventor									
Given Name (first	Family Name or Surname									
Stephen S.			Williams							
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Post Office Address										
City	Longmont	!	State	со	ZIP	80	501	Country	USĄ	
Name of Additional Jo	oint Inventor, if any:		A petit	ion has	been filed	for th	nis un	signed invento	ır	
Given Name (first a	and middle [if any])	Family Name or Surname								
Inventor's Signature		,						Date		
Residence: City										
Post Office Address					4.0					
Post Office Address										
City										
Name of Additional Joint Inventor, if any:			☐ A petition has been filed for this unsigned inventor							
Given Name (first and middle [if any])			Family Name or Surname							
			•						1	
Inventor's Signature								Date	·	
Residence: City										
Post Office Address										
Post Office Address										
City										

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name,

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

Materials and Products Using Nanostructured Non-Stoichiometric Substances

the specification of which (I authorize Choate, Hall & Stewart to check one of the following, three choices, and fill in the blanks, if applicable):

X is at	tached hereto			
was on	filed on(if	as Application applicable).	Serial No	and amended
w	as filed as PCT inte	rnational applic	cation No.	
on		and was amende (if applicable).	ed under PCT Ar	ticle 19
I hereby s identified specific above.	tate that I have revication, including the	ewed and under e claims, as amo	rstood the contentended by any am	nts of the above- endment referred to
I acknowlexamination of the §1.56.	ledged the duty to d nis application in ac	isclose informa cordance with I	tion which is ma Fitle 37, Code of	terial to the Federal Regulations,
of any foreign ap	plication(s) for pate	ent or inventor's tion for patent o	certificate listed or inventor's certi	d States Code, §119 I below and have also ificate having a filing
Prior Foreign Ap	plication(s):		Priority Claime	d ·
(Number)	(Country)	(Day/Mon	th/Year/Filed)	Yes No
(Number)	(Country)	(Day/Mon	th/Year/Filed)	Yes No

I hereby claim the benefit under Title 35, United States Code, §120 of any United States application(s) or PCT international application(s) designating the United States of America listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, §112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, §1.56 which became available between the filing date of the prior application and the national or PCT, international filing date of this application:

(Application Serial No.)	(filing date)	(status-patented, pending, abandoned)
(Application Serial No.)	(filing date)	(status-patented, pending, abandoned)
PCT Applications designa	ating the United St	ates
(PCT Appl. No.)	(U.S.S.N.)	(status-patented, pending, abandoned)
United States provisional each of the claims of this application in the manner §112, I acknowledge the odefined in Title 37, Code	application(s) liste application is not of provided by the fill th	e 35, United States Code, §119(e) of any ed below and, insofar as the subject matter of disclosed in the prior United States arst paragraph of Title 35, United States Code, formation which is material to patentability as tions, §1.56 which became available between the national filing date of this application.
Provisional Application(s):	
"Materials and Products U	Jsing Nanostructu	red Non-Stoichiometric Substances"
60/111,442 Application Number	12/1/98 Filing Date	pending_ Status
Application Number	Filing Date	Status

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 20f the United State Code and that such willful false statements may jeopardize the validity of the application or any patents issued thereon.

Full name of first inventor: Toppst Vadav 8 22 50
Full name of first inventor: Topfsh Yadav Inventor's signature: Date: 3 23 99
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Residence: 8124 ST 124 Toriginal Constant CO 80503
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Full name of first inventor: Ming Au
Inventor's signature:
Inventor's signature: Residence: 1402 Shuat St S. Chegurate Citizenship: CHINA
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Inventor's signature: Bate. 744 Date. 744 Date
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Inventor's signature: Date: March 21, 199
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Full name of first inventor: Roger Directine Inventor's signature: Date: 3/22/35
Mivement & Big. 11CA
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and the second s
Full name of first inventor: John Alexander Date: 3/22/99
Residence: 1406 PINEWOOD COURT, LINEW Citizenship: LISA UK J.A.
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Post Office Address: 2020 Trade Center Ave. Longmond Control

Full name of first inventor: Evan Franke

Inventor's signature:

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EXPRESS MAIL NO. EL961393708US Attorney Docket No. A52 CON 1 Client/Matter No. 80741.0029.001

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Yadav, et al.

Group Art Unit:

Serial No.

Examiner:

Filed: HEREWITH

For: SEMICONDUCTOR AND DEVICE NANOTECHNOLOGY AND METHODS FOR THEIR MANUFACTURE

Commissioner for Patents PO Box 1450 Alexandria, VA 22313-1450

STATEMENT OF TAPESH YADAV

DEAR SIR:

As a result of claims presented in this continuing patent application that were disclosed but not claimed in the parent application, U.S. Patent application Serial No. 10/004,258 filed on October 24, 2001, entitled "NANOSTRUCTURED CERAMIC PLATFORM FOR MICROMACHINED DEVICES AND DEVICE ARRAYS", I was not listed as an inventor of the parent application and now must be added as an inventor in the continuing application entitled "SEMICONDUCTOR AND DEVICE NANOTECHNOLOGY AND METHODS FOR THEIR MANUFACTURE" filed herewith. This omission was made without deceptive intent. I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true, and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Date: 02-19-04

Tapesh Yadav